## 1 BEFORE THE STATE OF WASHINGTON 2 ENERGY FACILITY SITE EVALUATION COUNCIL 3 4 In the Matter of Application No. 2003-01: EXHIBIT 25 SUP (MB-T SUP) 5 SAGEBRUSH POWER PARTNERS, LLC; 6 KITTITAS VALLEY WIND POWER PROJECT 7 8 9 10 APPLICANT'S PREFILED DIRECT SUPPLEMENTAL TESTIMONY 11 WITNESS # 6: MARK BASTASCH 12 13 Please state your name and business address. Q 14 My name is Mark Bastasch and my business address is 2020 SW 4th Avenue, Portland, OR 15 A 16 97201. 17 18 Have you previously filed prepared testimony in this matter? Q 19 20 A Yes 21 22 Is this testimony given to supplement your prior testimony? Q 23 24 Yes 25 EXHIBIT 25 SUP (MB-T SUP) - 1

MARK BASTACH

**TESTIMONY** 

PREFILED SUPPLEMENTAL

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Do you incorporate the facts and content of these exhibits as part of your testimony? Q

Yes. Α

Q Please summarize the conclusions of your noise analysis regarding the new layout?

Α A noise model of the proposed project was developed using source input noise levels from wind turbine manufacturers' data. The sound power level used as input to the noise model for each wind turbine was based on the G90 - 2 MW turbine by Gamesa Eolica. Information was provided by Gamesa Eolica on sound power level vs wind speed for wind speeds from 3 meters per second (6.7 miles per hour) to 21 m/s (47 mph). The maximum sound power level listed was 105.3 dBA. This sound power level was used in the modeling. A wind turbine hub height of 67 meters was used for all turbines.

Based on the modeling effort, the maximum predicted project noise level at any of the receptors is 49 dBA. The Washington Department of Ecology has established limits for environmental noise in Washington Administrative Code (WAC) 173-60-040. The limit at residential receptors (environmental designation for noise abatement, or EDNA, Class A) for noise generated by from an industrial facility (EDNA C) is 60 dBA during the daytime and 50 dBA during the nighttime. The estimated maximum project noise level at a Class A receptor of 49 dBA complies with the WAC limits.

Regulatory thresholds might be exceeded if the sound power level for the turbine ultimately selected for construction is greater than the modeled scenario. Therefore, if the turbine selected has a sound power level greater than 105.3 dBA used for the modeling, noise levels might exceed the regulatory threshold. Nevertheless, the project is required to comply with the most stringent state noise regulations, Class A EDNA with nighttime levels not to exceed 50 dBA.

EXHIBIT 25 SUP (MB-T SUP) - 3 MARK BASTACH PREFILED SUPPLEMENTAL

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An acoustical analysis of the final turbine layout will be prepared prior to construction, using noise level data for the final turbine type selected to ensure compliance with the state requirement (WAC 173-60). DARREL L. PEEPLES

EXHIBIT 25 SUP (MB-T SUP) - 4 MARK BASTACH PREFILED SUPPLEMENTAL TESTIMONY